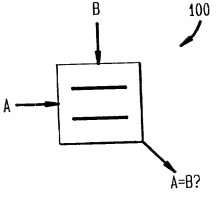
FIG. 1



20220134138001

FIG. 3

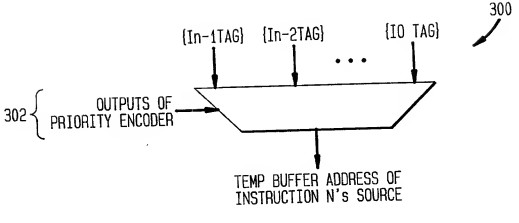


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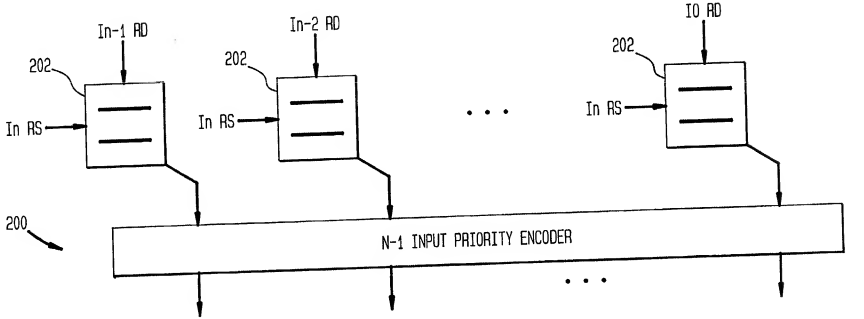
FIG. 2



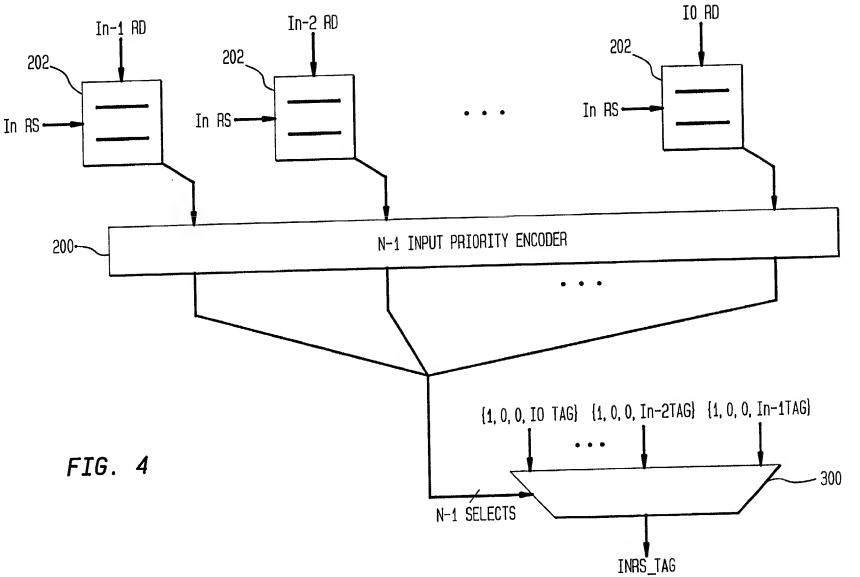

In-1 RD
In-2 RD
IO RD
202
202
202
In RS
In RS
In RS
N-1 INPUT PRIORITY ENCODER
200
{1, 0, 0, IO TAG}
{1, 0, 0, In-2TAG}
{1, 0, 0, In-1TAG}
300
N-1 SELECTS
INRS_TAG

FIG. 4

20220"EP1E8001

FIG. 5A

FIG. 5B

2067220 EP1E3043

FIG. 6

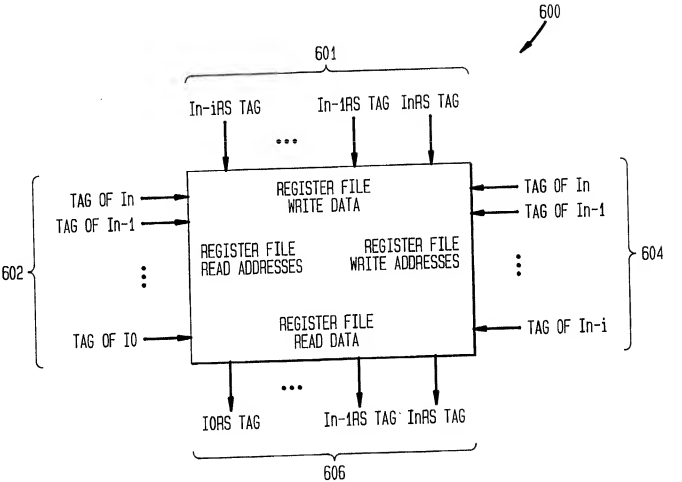


FIG. 7

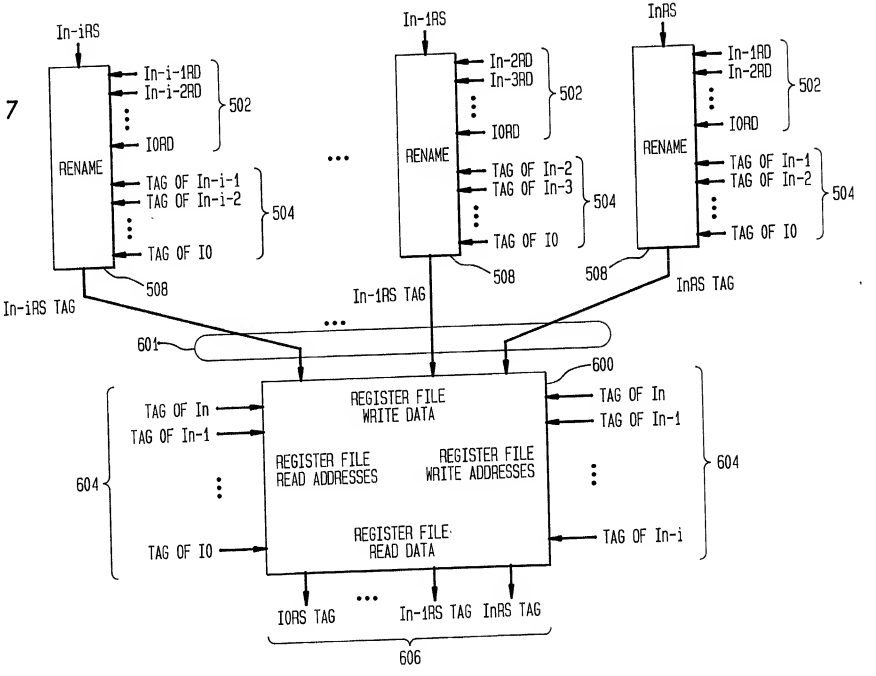
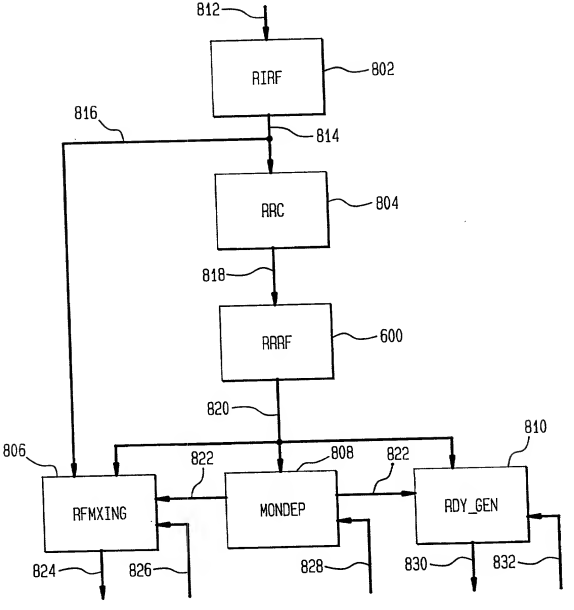

In-iRS
In-1RS
InRS
In-i-1RD
In-i-2RD
IORD
502
RENAME
TAG OF In-i-1
TAG OF In-i-2
TAG OF I0
504
508
In-2RD
In-3RD
TAG OF In-2
TAG OF In-3
In-1RD
In-2RD
TAG OF In-1
In-iRS TAG
In-1RS TAG
InRS TAG
601
600
REGISTER FILE
WRITE DATA
TAG OF In
TAG OF In-1
REGISTER FILE
READ ADDRESSES
REGISTER FILE
WRITE ADDRESSES
TAG OF In-i
REGISTER FILE
READ DATA
604
IORS TAG
606

FIG. 8



20020043.022702 10083143

2072290 EP1E800T

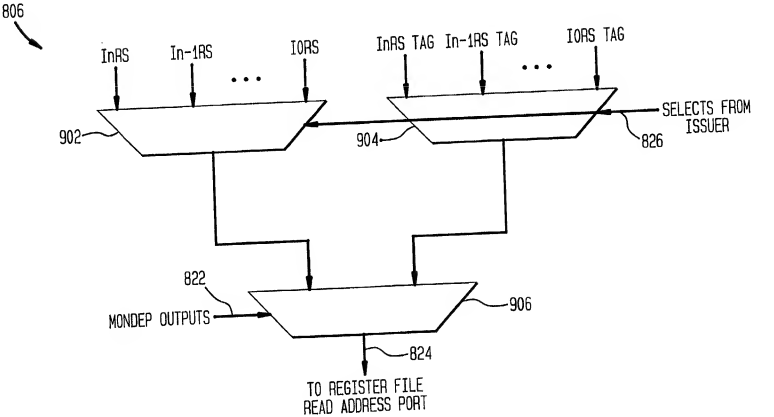



FIG. 9